

Amendments to the Claims**Claims 1-72 (Cancelled)**

Claim 73 (Currently amended): A method of producing a vaccine, comprising;
constructing a plasmid vector or DNA fragment by operably linking a DNA sequence encoding
an immunogenic viral antigen to a plant functional promoter capable of directing expression of
said viral antigen in a plant;
transferring the plasmid vector or DNA fragment into a cell of said plant;
regenerating a transgenic plant from said cell;
harvesting a portion of said regenerated transgenic plant, said portion containing said expressed
immunogenic viral antigen, and wherein said expressed antigen stimulates an immune response;
and
purifying said expressed antigen, so that most of the plant material is removed wherein said
expressed antigen, when orally administered to an animal, stimulates production of antibodies
with specificity for said antigen in said animal.

Claim 74: The method of claim 73 wherein said plant is a tomato plant.

Claim 75: The method of claim 73 wherein said plant is a potato plant.

Claims 76-78 (Withdrawn)

Claim 79: The method of claim 73 wherein said DNA sequence is a DNA sequence encoding a hepatitis virus immunogen.